

## ABSTRACT OF THE DISCLOSURE

The invention provides isolated nucleic acid molecules, designated ABCA6 transporter nucleic acid molecules, which encode novel ABC transporter family members. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing ABCA6 transporter nucleic acid molecules, host cells into which the expression vectors have been introduced, and non-human transgenic animals in which an ABCA6 transporter gene has been introduced or disrupted. The invention further provides isolated ABCA6 transporter proteins, fusion proteins, antigenic peptides, anti-ABCA6 transporter antibodies, and screening assays for ABCA6 transporter modulators. Diagnostic and therapeutic methods utilizing compositions of the invention are also provided.

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